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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/111,803	07/08/1998	HIDEO FUKUCHI	JAO-40854	6225
25944	7590	02/09/2005	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			CHUNG, DANIEL J	
			ART UNIT	PAPER NUMBER
			2672	

DATE MAILED: 02/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/111,803

**Applicant(s)**

FUKUCHI, HIDEO

**Examiner**

Daniel J Chung

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 03 December 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 9-14, 18, 22 and 34-68 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 9-14, 18, 22 and 34-68 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

Claims 9-14,18,22 and 34-68 are presented for examination. Claims 66-68 have been added by the amendment filed on 12-3-2004. This office action is in response to the amendment filed on 12-3-2004.

#### ***Priority***

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on January 28, 1997. It is noted, however, that applicant has not filed a certified copy of the Priority application as required by 35 U.S.C. 119(b).

#### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claims 9-14,22,34-35,37-44,46-48,50-57,59-62 and 64-68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsumura (5,936,545) in view of Rossmann (6,147,670), and further in view of Hosogai (5,404,433).**

Regarding claim 9, Tsumura discloses that the claimed feature of an information display apparatus, comprising: a display unit [10] that displays information [i.e. "character data"]; display control [9] means for controlling a display operation of said

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display unit; an operating unit [5] for designating a display operation of said display unit, said display control means causing said display unit to form a fixed display when an amount of information to be displayed is not greater than a number of lines displayable on said display unit in one frame (See Abstract, Fig 3-4); display control means causing said display unit to automatically form a vertical scrolling display a plurality of times continuously when an amount of information to be displayed exceeds a number of lines displayable on said display unit in one frame, the operation of automatically forming a scrolling display a plurality of times continuously being provided by virtue of automatic operation of the display control means and operating unit without manual operation of a user (See Fig 1A-1D, Fig 3A-3D, Fig 5A-B, col 1 line 31-61, col 2 line 13-19 in Rossmann); [an informing unit that generates a type of sound depending on whether the information can be displayed on one frame of the display unit or exceeds one frame of display unit]; a communication unit ["radio paging receiver"] for receiving a signal via an antenna unit ["antenna"; 1], communication unit for receiving information, wherein the information received via communication unit being displayed on display unit [10, 10A] in response to display control means [9,5], wherein the display unit, the display control means, the informing unit, the communication unit and the operating unit are integrated into the telecommunication device and the telecommunication device is portable on the user [i.e. Radio-paging receiver]. (See Abstract, Fig 1, Fig 3, Fig 4, col 1 line 54-col 2 line 54)

Tsumura does not specifically disclose that "automatically forming a vertical scrolling display a plurality of times continuously." However, such limitation is shown in the teaching of Rossmann. (See Fig 1A-1D, Fig 3A-3D, Fig 5A-B, col 1 line 31-61, col 2 line 13-19) [i.e. "the text automatically scrolls vertically," See col 2 line 15] The motivation would have been to provide the convenient way to see next unrevealed information for user. Also, the function of automatic scrolling will advantageously save the time and cost by eliminating the step of user's operations such as moving the mouse and pressing the button, as it will allow the user to see next unrevealed information without any delay. Therefore, it would have been obvious to one skilled in the art to incorporate "the automatic vertical scrolling display" of the teaching in Rossmann into the teaching of Tsumura, as such improvement is also advantageously desirable in the teaching of Tsumura for "realizing an optimum display pattern satisfying both of two essential requirements (i.e. handiness and visibility) in the radio-paging receiver." (See col 2 line 14-16 in Tsumura)

Also, The combination of Tsumura and Rossmann do not specifically disclose that generating a type of sound depending on the information can be displayed on one frame of the display unit or exceeds one frame of display unit. However, such limitation is shown in the teaching of Hosogai. [i.e. "a beep sound for alerting the operator should occur if this allocation were performed so that the allocation area exceeds the size of the image display part of the LCD"] (See Fig 45, col 26 line 8-12, col 45 line 34-37, col 45 line 48-51) It would have been obvious to one skilled in the art to incorporate the

teaching of Hosogai into the teaching of Tsumura in an analogous art, in order to improve operator's responsiveness for indicating scrollable image on the display unit, as such improvement is also advantageously desirable in the teaching of Tsumura and Rossmann for performing image scrolling process with significant way of alerting the operator.

Regarding claim 10, Tsumura discloses that display control means causing said display unit to display information formed of a group of characters vertically or horizontally over a plurality of lines. (See Abstract, Fig 3-4)

Regarding claim 11, refer to the discussion for claim 4 hereinabove, Rossmann discloses that display control means changing a scroll speed for forming the scrolling display in accordance with an operation performed on said operating unit. (See Abstract, Fig 1A-1D, Fig 3A-3D, Fig 5A-B, col 2 line 13-19)

Regarding claim 12, refer to the discussion for claim 4 hereinabove, Rossmann discloses that display control means changing the scroll speed in accordance with an operation externally performed on said operating unit, the operation providing an instruction to change a predetermined scroll speed determined at the start of the scrolling display. (See Abstract, Fig 1-7, col 1 line 10-40, col 3 line 31-39)

Regarding claim 13, refer to the discussion for claim 4 hereinabove, Rossmann discloses that display control means presetting the scroll speed determined at the start of the scrolling display by operation of a switch button on said operating unit. (See Abstract, Fig 1-7, col 1 line 10-40, col 3 line 31-39)

Regarding claim 14, refer to the discussion for claim 4 hereinabove, Rossmann discloses that display control means causing said display unit to form [a demonstration display] at a currently set scroll speed, the scroll speed being determined at the start of the scrolling display by said operating unit. (See Abstract, Fig 1-7, col 1 line 10-40, col 3 line 31-39)

Rossmann does not explicitly disclose that “ demonstration display at a currently set scroll speed.” However, it would have been obvious to one having ordinary skill in the art at the time of Applicant ‘s invention, because using a demonstration display will advantageously allow the user to set the scrolling speed with easy manner.

Regarding claim 22, Tsumura discloses that communication unit [“radio paging receiver”] receiving an individually selective calling signal or a message via antenna unit [1]. (See Fig 1)

Regarding claim 34, refer to the discussion for the claim 9 hereinabove, Tsumura discloses that the operating unit [5,9] receives input to display information. (See Fig 1)

Regarding claim 35, Tsumura does not specifically disclose that telecommunication device is a wrist-fit-type. however, Examiner takes official notice that wrist-mounted communication device [i.e. "watch pager system"] is well know in an analogous art, (See newly submitted references herein; US 6,158,884, US 6,134,428, US 5,537,407) in order to provide improved portability of communication device, as such improvement is also advantageously desirable in the teaching of Tsumura for "realizing an optimum display pattern satisfying both of two essential requirements (i.e. handiness and visibility) in the radio-paging receiver." (See col 2 line 14-16 in Tsumura)

Regarding claim 37, Tsumura discloses that the information to be displayed on display units are characters, each character formed by a matrix of dots, the number of dots in a vertical length is greater than the number of dots in a horizontal direction length. (See col 4 line 33-59, col 4 line 64-col 5 line 3)

Regarding claim 38, refer to the discussion for the claim 9, Rossmann discloses that the display unit forms a scrolling display that incrementally displays one or more rows of dots sufficient to display a font. (See Abstract, Fig 1A-1D, Fig 3A-3D, Fig 5A-B, col 2 line 13-19)

Regarding claims 39-44, claims 39-44 are similar in scope to the claims 9-14, and thus the rejections to claims 9-14 hereinabove are also applicable to claims 39-44.



Regarding claims 46-48 and 50-51, claims 46-48 and 50-51 are similar in scope to the claims 22,34-35 and 37-38, and thus the rejections to claims 22,34-35 and 37-38 hereinabove are also applicable to claims 46-48 and 50-51.

Regarding claims 52-57, 59-61 and 62-63, claims 52-57, 59-61 and 62-63 are similar in scope to the claims 39-44,46-48 and 50-51, and thus the rejections to claims 39-44,46-48 and 50-51 hereinabove are also applicable to claims 52-57, 59-61 and 62-63.

Regarding claim 66, claim 66 is similar in scope to the claims 9 and 12, and thus the rejections to claims 9 and 12 hereinabove are also applicable to claim 66.

Regarding claim 67, claim 67 is similar in scope to the claims 9 and 11, and thus the rejections to claims 9 and 11 hereinabove are also applicable to claim 67.

Regarding claim 68, claim 68 is similar in scope to the claim 67, and thus the rejection to claim 67 hereinabove is also applicable to claim 68.

**Claims 18,36,45,49,58 and 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsumura (5,936,545) and Rossmann (6,147,670) in view of Hosogai (5,404,433), and further in view of Matthews et al (5,677,708)**

Regarding claim 18, the combination of Tsumura and Rossmann do not explicitly disclose that “means for informing to a user when information to be displayed exceeds the number of lines displayable on display unit in one frame”. However, such limitation is shown in the teaching of Matthews [“arrow tab”; 162,164,195-198] (See Abstract, Fig 5- Fig 11, col 3 line 60-col 4 line 17, col 14 line 41-col 15 line 4) It would have been obvious to one skilled in the art to include “arrow tab” of Matthews into the teaching of Tsumura, in order to effectively “provide the user with an instinctive indication that additional items exist beyond those displayed in the control object” (See col 4 line 60-63 in Matthews), as such improvement is also advantageously desirable in the teaching of Tsumura for “realizing an optimum display pattern satisfying both of two essential requirements (i.e. handiness and visibility) in the radio-paging receiver.” (See col 2 line 14-16 in Tsumura), thereby displaying maximum display contents within limited display area with optimized manner. Furthermore, implementing a scroll bar, when display content exceed the size limitation of display unit, is well known in the art. As to the on-line dictionary, scroll bar is defined as “in some graphical user interfaces, a vertical or horizontal bar at the side or bottom of a display area that can be used with a mouse for moving around in that area”. Therefore, it would have been obvious to one skilled in the

art to automatically show a "scroll bar" whenever the size of content information is larger than the size of display device.

Regarding claim 36, refer to the discussion for the claim 18 hereinabove, Matthews discloses that means for informing to a user when information to be displayed exceeds the number of lines displayable on display unit in one frame. (See Abstract, Fig 5- Fig 11, col 3 line 60-col 4 line 17, col 14 line 41-col 15 line 4)

Regarding claims 45 and 49, claims 45 and 49 are similar in scope to the claims 18 and 36, and thus the rejections to claims 18 and 36 hereinabove are also applicable to claims 45 and 49.

Regarding claims 58 and 63, claims 58 and 63 are similar in scope to the claims 45 and 49, and thus the rejections to claims 45 and 49 hereinabove are also applicable to claims 58 and 63.

### ***Response to Arguments/Amendments***

Applicant's arguments filed on 12-3-2004, with respect to the rejection(s) of claim(s) 9-14, 18, 22 and 34-65 under 35 U.S.C. 103(a) have been fully considered and are persuasive, as amended. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of additional

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reference Hosogai (5,404,433). Specifically, applicant argued that the cited references do not disclose that generating a sound to indicate whether information can be displayed within one frame or not. However, the newly submitted reference Hosogai clearly discloses that "a beep sound for alerting the operator should occur if this allocation were performed so that the allocation area exceeds the size of the image display part of the LCD" (See Fig 45, col 26 line 8-12, col 45 line 34-37, col 45 line 48-51) See the rejection hereinabove.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Chung whose telephone number is (703) 306-3419. He can normally be reached Monday-Thursday and alternate Fridays from 7:30am- 5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael, Razavi, can be reached at (703) 305-4713.

### **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

### **or faxed to:**

**(703) 872-9306 (Central fax)**

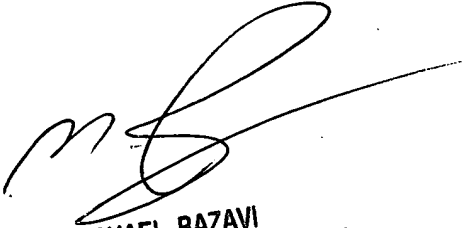
**(703) 872-9314 (for Technology Center 2600 only)**

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

djc  
February 1, 2005



MICHAEL RAZAVI  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600